

Average Germination (GC), Seeds per Gram (SPG) and Yields by Species

Species		GC %	SPG	Yield (kg/hl)	Seeds Supplied Per Seedling	Estimated Potential Trees (K) per kg seed	Estimated Potential Trees (K) per hl cones
Lodgepole Pine - Int. - orchard	Pli	95	252	0.245	2.01	125.1	30.7
Lodgepole Pine - Interior		94	337	0.283	2.24	150.6	42.6
Spruce species - orchard	Sx	87	390	0.642	3.05	127.9	82.1
Spruce species		92	460	0.679	2.56	179.5	121.9
Douglas-fir Interior - orchard	Fdi	94	91	0.563	2.43	37.5	21.1
Douglas-fir Interior		94	98	0.898	2.43	40.2	36.1
Douglas-fir Coastal - orchard	Fdc	95	85	0.368	2.18	39.2	14.4
Douglas-fir Coastal		93	95	0.364	2.43	39.1	14.2
Western Redcedar - orchard	Cw	91	747	0.635	2.56	291.8	185.4
Western Redcedar		91	790	1.261	2.56	308.5	389.2
Western Larch - orchard	Lw	87	236	0.629	3.05	77.5	48.8
Western Larch		89	268	0.590	2.78	96.4	56.9
Western Hemlock - orchard	Hw	95	433	0.951	2.18	198.8	189.1
Western Hemlock		91	523	1.390	2.56	204.3	284.0
Yellow Cedar - orchard	Yc	7	238	0.336	10.00	23.8	8.0
Yellow Cedar		47	207	1.720	6.87	30.1	51.8
Sub-alpine Fir	Bl	69	84	1.787	4.81	17.4	31.1
Sitka Spruce - orchard	Ss	95	392	0.541	2.18	180.0	97.4
Sitka Spruce		93	428	0.495	2.43	176.3	87.2
Amabilis Fir	Ba	55	26	2.062	6.14	4.2	8.7
Yellow Pine - orchard	Py	86	16	0.966	3.30	4.8	4.7
Yellow Pine		88	18	1.830	3.05	6.0	10.9
Western White Pine - orchard	Pw	89	47	0.423	2.78	17.0	7.2
Western White Pine		82	58	0.501	3.68	15.6	7.8
Black Spruce	Sb	88	886	0.267	3.05	290.4	77.5
Red Alder - orchard	Dr	96	1,489	0.928	2.18	682.8	633.6
Red Alder		77	1,793	0.866	4.04	443.7	384.4
Mountain Hemlock	Hm	86	434	0.566	3.30	131.6	74.4
Paper Birch	Ep	74	2,720	0.558	4.31	631.1	351.9
Grand Fir	Bg	78	44	1.601	4.04	11.0	17.5
Sxs - orchard	Sxs	87	468	0.152	3.05	153.4	23.3
Sxs		89	418	0.873	2.78	150.4	131.3
Lodgepole Pine - Coastal	Plc	93	351	0.633	2.43	144.3	91.3
Trembling Aspen	At	81	7,554	0.269	3.68	2,052.6	552.8
Sitka Alder	Alnucri	63	2,220	0.565	5.34	415.8	234.9
Siberian Larch	Ls	56	84	0.403	6.14	13.7	5.5
Tamarack	Lt	92	646	1.003	2.56	252.3	253.1

Germination Capacity (GC) and Seed Yield (kg/hl) from TSC 5 Year Averages Table

Seeds per Gram (SPG) from information available 1987-2017

Seeds Supplied Per Seedling from Ministry of Forests & Range Sowing Guidelines (2007)

Potential trees per kg and hl cones calculated for a 112 cavity block

More detailed information can be found on our webpage at:

<https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/tree-seed/tree-seed-centre/seed-withdrawal-prep-transport/priority-processing/species-averages-tables>

Collection quality may vary from year to year, please refer to the 5 year averages table to view degree of variation between crop years for each species.

Updated March 9, 2018